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**From:** Rossi, Debra [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=F1AA8EE0AD5E41C5B1D296767097F89E-DROSSI]  
**Sent:** 7/2/2013 12:32:44 PM  
**To:** Michael Barbara [mab.consulting@verizon.net]  
**CC:** 'Susanna Mays' [susanna@TrustSC.com]; 'John Cargill' [John.Cargill@state.de.us]  
**Subject:** RE: DS&G - request for PFOA analysis for groundwater samples

Mike,

I think it's unlikely that the existing database will yield information about the presence or absence of PFOA and other perfluorinated compounds at the Site. Methods 8260 and 8270 are both GC/MS methods. As indicated in EPA's fact sheet on emerging contaminants PFOA and PFOS, suitable analytical methods for these analytes utilize high performance liquid chromatography coupled with tandem mass spectrometry (HPLC-MS/MS); liquid chromatography with electrospray ionization (LC-ESI); and liquid chromatography with tandem mass spec (LC-MS/MS). A link to the fact sheet, which also discusses suitable sample preparation techniques, is provided in Dawn's email which I forwarded to you yesterday.

Please let me know of the Trust's/Golder's availability to update EPA and DNREC on the comprehensive CSM today, preferably well before I leave the office at 2:45 p.m. I will be away from the office for the remainder of the week.

Thank you.

Debra Rossi  
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**From:** Michael Barbara [mailto:mab.consulting@verizon.net]  
**Sent:** Monday, July 01, 2013 3:12 PM  
**To:** Rossi, Debra  
**Cc:** 'Susanna Mays'; 'John Cargill'  
**Subject:** RE: DS&G - request for PFOA analysis for groundwater samples

Debbie – working backwards on messages today – it's been a hectic day.

Golder is going thru the databases to see if this compound has been detected as a IC in previous analyses. That's probably the best starting point for this discussion. With regard to your correspondence on the RAOs and the CSM, I think we are highlighting the issue of trying to complete both these things in parallel. We are moving forward with the development of our CSM as part of the Supplemental Site Characterization, which obviously impacts the development of RAOs. That said, I have a call with Golder later this afternoon to discuss what we have available right now, and what our schedules look like. I am travelling part of the week of 7/15.

Will get back to you ASAP!

mike

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**Michael A. Barbara, P.E.**  
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**From:** Rossi, Debra [<mailto:Rossi.Debra@epa.gov>]  
**Sent:** Monday, July 01, 2013 9:01 AM  
**To:** Michael Barbara  
**Cc:** Susanna Mays; John Cargill  
**Subject:** DS&G - request for PFOA analysis for groundwater samples

Mike,

We have occasionally been blind-sided by contaminants at DS&G. Dupont is a Settling Defendant. Can we say with certainty that perfluorooctanoic acid (PFOA), a contaminant of emerging concern in drinking water supplies, is not present at the Site? I understand that, consistent with EPA's Unregulated Contaminant Monitoring Rule 3 (UCMR 3), Artesian is testing finished water from the Llangollen well field for PFOA and other UCMR 3 contaminants; however, individual wells are not being tested for these parameters. EPA recommends that groundwater samples be collected from the Llangollen well field (including AWC-G3-R) and selected Site monitoring wells and analyzed for PFOA during the next quarterly sampling event. Please see attached email for analytical methods. Information about UCMR3 may be found at: <http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/ucmr3/basicinformation.cfm>

Thanks.

Debbie

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**From:** Ioven, Dawn  
**Sent:** Thursday, June 20, 2013 9:18 AM  
**To:** Davies, Kathy  
**Cc:** Rossi, Debra  
**Subject:** PFOA / PFOS

Hi, Kathy. The link below provides a Fact Sheet for PFOA / PFOS. Page 5 of the Fact Sheet describes analytical methods for detecting these compounds. EPA Method 537 (Version 1.1) seems to be the standard for PFOA / PFOS in gw. If you have any questions, please let me know. Thanks.

Dawn

[http://www.epa.gov/fedfac/pdf/ec\\_technical\\_fs\\_pfos\\_pfoa\\_march\\_2013.pdf](http://www.epa.gov/fedfac/pdf/ec_technical_fs_pfos_pfoa_march_2013.pdf)

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